

hit upon its pores, and the red upon its parts. Lastly, were the rays of Light reflected by impinging on the solid parts of Bodies, their reflexions from polished Bodies could not be so regular as they are. For in polishing Glass with Sand, Putty or Tripoly, it is not to be imagined that those substances can by grating and fretting the Glass bring all its least particles to an accurate polish; so that all their surfaces shall be truly plain or truly spherical, and look all the same way, so as together to compose one even surface. The smaller the particles of those substances are, the smaller will be the scratches by which they continually fret and wear away the Glass until it be polished, but be they never so small they can wear away the Glass no otherwise than by grating and scratching it, and breaking the protuberances, and therefore polish it no otherwise than by bringing its roughness to a very fine Grain, so that the scratches and frettings of the surface become too small to be visible. And therefore if Light were reflected by impinging upon the solid parts of the Glass, it would be scattered as much by the most polished Glass as by the roughest. So then it remains a Problem, how Glass polished by fretting substances can reflect Light so regularly as it does. And this Problem is scarce otherwise to be solved than by saying, that the reflexion of a ray is effected, not by a single point of the reflecting Body, but by some power of the Body which is evenly diffused all over its surface, and by which it acts upon the ray without immediate contact. For that the parts of Bodies do act upon Light at a distance shall be shewn hereafter.

Now

Now if Light
solid parts of B
probable that a
solid parts of
lost in the Bod
forts of reflexio
impinge on the
those substance
than a clear tra
its necessary th
in them, and it
be stopt and sti
their parts.

And hence w
more rare and p
ter is 19 times
rarer than Gol
and without the
netick Effluvia
its pores, and to
cave Sphere of
has upon pressin
Water squeeze
side in multitu
bursting or crac
been informed b
may conclude, t
parts, and by co
times more pore
an Hypothesis, b
not be capable
by the same Hy